

How can we generate electricity?

2t H/VQ

In the Netherlands we use a lot of electricity. Nowadays it is mainly generated by burning fossil fuels (oil, coal). But the problem of this energy source is that scientists have calculated that in 50 years we will run out of fossil fuels. Also when fossil fuels are burned, carbon dioxide is released in the atmosphere. Carbon dioxide is one of the causes of global warming.

For this reason scientists are looking for other, sustainable (= duurzame) ways to generate electricity.

You will have to write an essay where you investigate one way to generate electricity.

You will have to work on the Wiki together with the Spanish pupils and your Dutch partner(s).

You can work on your essay during the lessons on 30 november and 5 december.

Your essay has to be finished on Friday 11 January 2013.

In your essay you must at least answer the questions below, **in your own words**:

- How is electricity generated with help of your energy source?
- Where can you find “electricity generating plants” of this source and why?
- Can it be used in the Netherlands or other countries in Europe, why?/why not?
- Is it expensive?
- What are the effects on the environment?
- What are the advantages and disadvantages of generating electricity with this energy source?
- Is it sustainable?

A website to start: <http://home.clara.net/darvill/altenerg/index.htm>

Use **at least** two other sources of information!

Write your all your sources of information in your essay.

Name:

Mark:

Rubric science project: “Energy sources”

Criteria A Content (max. 6p)

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|-----|---|
| 0 | <ul style="list-style-type: none">+ There are too many mistakes in the explanation of how electricity is generated with help of the students’ energy source.+ The student shows no understanding of the use and the good and bad effects of their energy source on people (society) and the environment. |
| 1-2 | <ul style="list-style-type: none">+ The student tries to explain how electricity is generated with his/her energy source, but there are many mistakes in the explanation, which makes it hard to follow.+ The student shows little understanding of the use and the good and bad effects of their energy source on people (society) and the environment. |
| 3-4 | <ul style="list-style-type: none">+ The student explains how electricity is generated with his/her energy source, but there are a few mistakes in the explanation.+ The student shows some understanding of the use and the good and bad effects of their energy source on people (society) and the environment. |
| 5-6 | <ul style="list-style-type: none">+ The student is able to explain very well how electricity is generated with help of his/her energy source.+ The student shows a clear understanding of the use and the good and bad effects of their energy source on people (society) and the environment. |

Criteria B Layout (max. 2p)

- | | |
|---|--|
| 0 | <ul style="list-style-type: none">+ The cover, pictures and layout of the document is not complete.+ There is no structure in the text. |
| 1 | <ul style="list-style-type: none">+ The cover, pictures and layout of the document is complete, however little effort has gone into creating it.+ There is little structure in the text. |
| 2 | <ul style="list-style-type: none">+ The cover, pictures and layout of the document are extremely attractive. A lot of effort has gone into creating it.+ The essay follows a logical structure. |

Criteria Use of English (max. 3p)

C1 Vocabulary

- | | |
|---|--|
| 0 | Students' use of English is poor, many mistakes and inappropriate language causes confusion. |
| 1 | Students' use of English is sufficient, some mistakes and some inappropriate language. |
| 2 | Students' use of English is good, few or no mistakes and little inappropriate language. |
| 3 | Students' use of English is excellent, no mistakes and no inappropriate language. |

Criteria Use of English (max. 3p)

C2 Grammar

- | | |
|---|---|
| 0 | Students makes frequent errors when using basic grammatical structures. |
| 1 | Students use basic grammatical structures, though with some errors. |
| 2 | Students use basic grammatical structures, generally accurately and sometimes attempts more complex structures. |
| 3 | Students use basic and more complex grammatical structures, generally accurately. |

Grade = Total points scored /1.4